STRONG
DIGITAL TV

Picture similar

Digital High Definition Satellite and Terrestrial Receiver SRT 8345 CI

User Manual

STRONG DIGITAL TV

English

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HOTLINE
0180 500 75 43*
* €0.14/Min. from German wired line
0820 400 150*
* €0.12/Min. from Austrian wired line
0826 029 928*
* €0.14/Min. from French wired line
per June 2008

1.0 INTRODUCTION

1.1 Safety Instructions

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of not isolated dangerous voltage with the inside of the product that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in the literature accompanying the appliance.

Read All Instructions - Before you use the product, read all operation instructions, For more information on accessories such as the lithium ion battery, refer to the manuals provided with those products.

Save These Instructions- Save all safety and operating instructions for future reference.

Heat Warnings - Read carefully and follow all warning labels on the product and those described in the instructions.

Follow Instructions- Follow all instructions provided with this product.

Cleaning - Always unplug this product from the wall outlet before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.

Attachments - For your safety, and to avoid damaging the product, use only accessories recommended by STRONG.

Water and Moisture - Never use this product around water (near a bathtub, kitchen sink, laundry tub, wet basement. swimming pool or in the rain)

Location -To avoid damage to the product and prevent personal injury, never place this product on an unstable stand, tripod, bracket, Follow the instructions that describe how to safely mount the product, and use only the mounting devices recommended by the manufacturer.

Power Sources - Connect this product only to the power source described on the product label. If you are not sure about the type of power supply in your home, consult your local power company.
Refer to instruction pages for information on using the product with a battery.

Grounding, Polarization - If this product is used with a specified AC adapter, the adapter may be equipped with a polarized alternating current line plug (a plug with one blade wider than the other). This safety feature allows the plug to fit into the power outlet only one way, If you cannot insert the plug into the wall outlet, pull it out, reverse it, and have the receptacle replaced.

Protecting the Power Cord - The power supply cord should be placed so it will not be walked on. Never put a heavy object on the power cord or wrap it around the leg of a table or chair. Keep the area around the power cord connection points, at the power outlet, and at the product connection, free of all AC adapter or accessory power cords.

GENERAL PRECAUTIONS - SAFETY PRECAUTIONS

Lightning- If a lightning storm occurs while using a specified AC adapter, remove it from the wall outlet immediately. To avoid damage from unexpected power surges, always unplug the AC adapter from the power outlet and disconnect it from the receiver when the receiver is not in use.

Overloading- Never overload wall outlets, extension cords, power strips, or other power connection points with too many plugs.

Foreign Objects, Liquid Spillage - To avoid personal injury caused by fire or electrical shock from contact with internal high voltage points, never insert a metal object into the product. Avoid using the product where there is a danger of spillage.
Heat - Never use or store this product near any heat source such as a radiator heat register, stove, or any type of equipment or appliance that generates heat, including stereo amplifiers.
Servicing - Refer all servicing to qualified personnel. Attempting to remove the covers or disassemble the product, could expose you to dangerous high voltage points.

Damage Requiring Service - If you notice any of the conditions described below while using a specified AC adapter. unplug it from the wall outlet and refer servicing to qualified service personnel:

1. Liquid has been spilled onto the product or some other object has fallen into the product.
2. The product has been exposed to water.
3. The product does not operate normally despite following operating instructions. Adjust only the controls described in the operating instructions ad improper adjustment of other controls could damage the product and require extensive repair word by a qualified technician.
4. The product has been dropped or damaged in any way.
5. The product exhibits distinct change in performance.

Replacement Parts - When replacement parts are required, mare sure that the authorized service centre uses only parts with the same characteristics as the originals, as recommended by the manufacturer. Unauthorized substitution of parts could result in fire, electrical shock, or create other hazards.
Safety Check - Upon completion of servicing or repairs, ask the service technician to perform safety checks to determine that the product is in good working order.
Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. Where the mains plug or all-pole mains switch is used as the disconnect device, the disconnect device shall remain readily operable.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:
Refer to the user manual of your TV and your antenna.

Make sure that Audio/Video cables and outdoor components are in a good condition and the SCART connections are well shielded. This manual provides complete instructions for installing and using this receiver. The following symbols will serve as follow.

WARNING: Indicates warning information.

TIPS Indicates any other additional important or helpful information.
MENU Represents a button on the remote control or the receiver (Bold Character)
Move to Represents a menu item within a window. (Italic Character)

1.4 Features & Accessories

- HDTV receiver for all digital Free-To-Air TV and Radio programmes via satellite and terrestrial antenna
- 2 Common Interface slots compatible to most popular Conditional Access Modules* (e.g. CryptoWorks, Conax, Viaccess, Irdeto, Mediaguard, etc)
- Exceptional bright and clear TV pictures and excellent sound in DVD quality
- High speed storage, copy and loading function for channel list(s) and software from USB storage devices
- 5 000 channels memory capacity
- Austrian, German, Italian channels pre-programmed
- Display showing channel number or time
- 4 Favourite lists for TV and Radio
- Zoom functions for TV pictures
- Electronic TV Programme Guide for present/following event information
- 7 Timers with 3 modes (daily, weekly, once)
- Teletext via receiver, multi-lingual subtitling and audio track support
- Parental lock function with rating control
- Quick and easy installation & user-friendly menu
- Multi-lingual support on screen menu (OSD)
- USB 2.0 for USB storage devices
- Selectable output for 1080i, 720P and 576P format
- Aspect ratio adjustment 4:3, 16:9, Pan & Scan, Letterbox
- Software Update via USB 2.0 port and RS-232
- Digital sound through optical and coaxial output (S/PDIF)
- Fully DVB compliant, supports MPEG-2, MPEG-4 and H.264.
- Multiple Video Outputs: HDMI, Component(Y, pb, pr), SCART (RGB, CVBS), Video RCA.

Accessories:

- 1 x User Manual
- 1 x Remote control unit
- 2 x Batteries (AAA type)

Note: The batteries should not be recharged, disassembled, electrically short-circuited or be mixed or used with other types of batteries.

2.0 YOUR RECEIVER

2.1 Front Panel

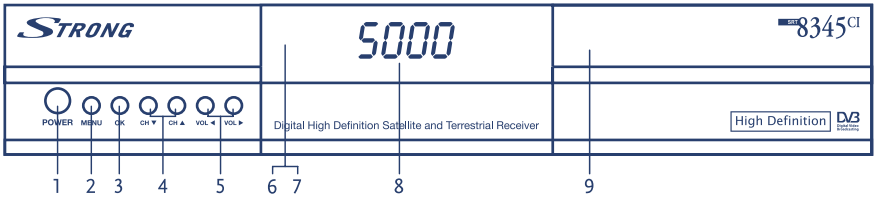


Fig. 1

1. **POWER**
   Switches the receiver power On and Standby.
2. **MENU**
   Gets into Main Page screen.
3. **OK**
   Executes the selected item.
4. **CH Up/Down**
   Channel up/down or selects the item of Menu.
5. **VOL Up/Down**
   Volume up/down or selects the item of Menu.
6. **Stand-by LED**
   Light up RED when receiver is in stand-by mode. Off when receiver is in awake mode.
7. **USB LED**
   Light up GREEN when USB device is connected to USB connector at the back of the receiver.
8. **4 digits indicator**
   In awake mode displays channel number. In stand-by mode displays current time/
9. **Front panel flap**

9a. **2 Common Interface slots**

9b. **Smart card reader for Conax smart card**

2.2 Rear Panel

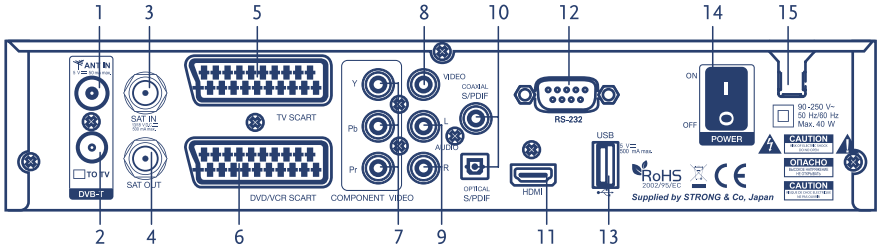


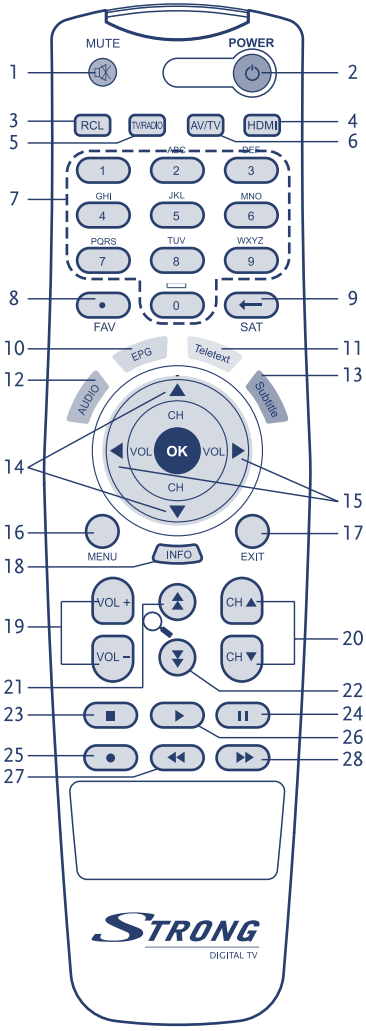
Fig. 2

1. **ANT IN**
   To connect the antenna cable to this connector.
2. **TO TV**
   Gives you the possibility to connect an extra terrestrial receiver.
3. **SAT IN**
   To connect the coaxial cable from your LNB on the satellite dish to this connector.
4. **SAT OUT**
   Gives you the possibility to connect an extra satellite receiver (analogue or digital).
5. **TV SCART Connector**
   Use this connector to connect your receiver with your TV set using a SCART cable.
6. **DVD/ VCR SCART**
   Use this connector to connect your receiver to your video recorder using a SCART cable. When receiver in stand-by mode a video/audio signals from your VCR will be looped through receiver to your TV set.
7. **Y, Pb, Pr**
   Connects to Component jack of TV.
8. **VIDEO**
   This connector has a constant video signal for additional VCR-connections.
9. **Audio L/R**
   Outputs for Audio Left (White) and Right (Red)
10. **SPDIF Coax and Optical**
    Output for connecting to a digital audio amplifier.
11. **HDMI**
    Connects to HDMI jack of TV.
12. **RS-232 Serial Port**
    This serial port can be used to connect your PC to your receiver to download new software versions to your receiver.
13. **USB**
    Connects to USB device
14. **Power ON/OFF Switch. Powers on/off**

15. **Power Cord**

Your receiver requires a current of 90 ~ 240 V AC (Auto-selectable), 50 ~ 60 Hz ±- 5%. Make sure to check the power specification before connecting your receiver to the wall outlet.

2.3 Remote Control Unit



1. **MUTE**
   Enables or disables the audio.
2. **POWER**
   Switches the receiver between operation and standby mode.
3. **RCL**
   Selects the previously viewed channel.
4. **HDMI**
   Changes the resolutions of video (Switch HD type)
5. **TV/RADIO**
   Switches between TV and Radio.
6. **AV/TV**
   Selects the TV, VCR, STB (receiver output) or AUTO (Automatic) mode for the TV SCART output.
7. **Numeric buttons**
   Select the TV or Radio service channels and individual menu.
8. **FAV**
   Toggles the selected favorite mode.
9. **SAT**
   Displays the Channel list of Terrestrial.
10. **EPG**
    Displays the TV or Radio program guide. (Electronic Program Guide)
11. **Teletext**
    Enables teletext mode.
12. **Audio**
    Changes the audio languages.
13. **Subtitle**
    Enables subtitle mode.
14. **CH ◀▶**
    Changes channels or moves to the item in the menu.
15. **VOL ▲▼**
    Adjust the volume or moves to left or move item in the menu.
16. **MENU**
    Displays the main menu on screen.
17. **EXIT**
    Returns to the previous menu or normal viewing mode from a menu.

18. **INFO**
    Displays the program information box on the screen.
19. **V+/V-**
    Turns volume up or down.
20. **CH+/CH-**
    Changes channels up or down on normal mode.
21. ▲
    Moves up a page in the channel list.(Selects zoom In/out)
22. ▼.
    Moves down a page in the channel list.
23. **STOP**
    Stops recording, timeshift or playback.
24. **PAUSE**
    Timeshift deactivated: Pauses the playing picture or go again to normal mode. Timeshift activated: Starts the function. Further it is used to pause the playback.
25. **RECORD**
    Records the program.
26. **PLAY**
    Starts the playback assumed that recording/s were already done. Then you can select a file from the *Recording File List*.
27. **REWIND**
    Starts reverse playback and changes the speed of reverse playback.
28. **F/F**
    Starts fast forward or fast motion playback and changes the speed of forward playback.

3.0 CONNECTIONS

3.1 Connecting to a Satellite Dish

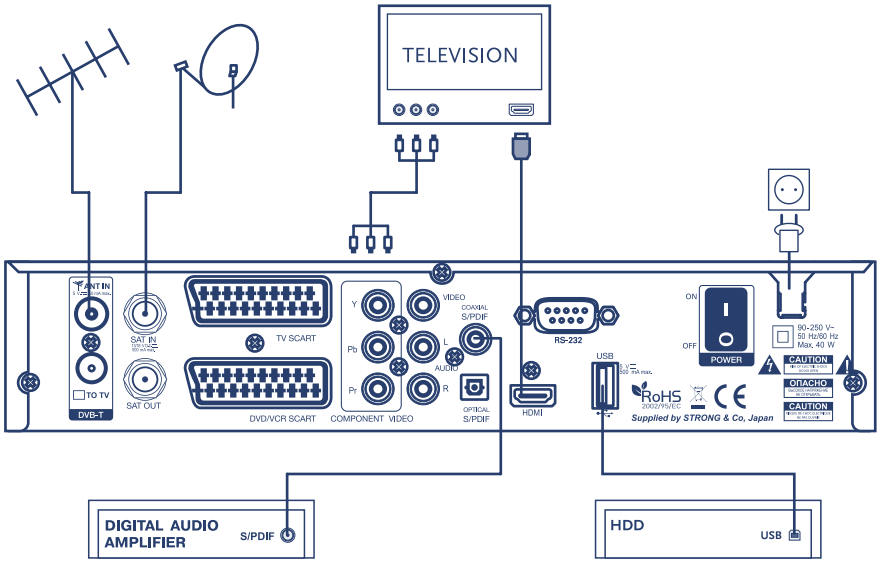


Fig. 3

Connecting a fixed satellite dish to your receiver

Make your choice of which satellite you want to receive your signals from, and have your dealer aim your dish at the requested satellite. Connect a coax cable to your LNB and the other end directly to the SAT IN connector of your receiver.

Connecting multiple fixed dishes to your receiver using a DiSEqC 1.0 switch

If you want to watch programs from more than one satellite (For example from Astra and from HOT BIRD) it is advisable to use fixed dishes and a DiSEqC 1.0 switch.

Have your Dealer aim the dishes at the requested satellites and connect the LNB? with coax cables to the IN connectors of the DiSEqC 1.0 switch. Connect the OUT connector of the DiSEqC 1.0 switch to the SAT IN connector at the back of your receiver. Connecting a dish on a motorized positioner to your receiver.

Another possibility for watching programs from multiple satellites is by mounting a dish to a motorized DiSEqC 1.2 positioner.

Have your dealer mount the dish to the positioner, set the correct angle of the elevation and let him set the center point for your positioner. Connect the LNB with a coax cable to the LNB IN connector of the positioner, and connect the OUT connector of the positioner to the SAT IN connector at the back of your receiver.

3.2 Connecting to Terrestrial antenna

To receive the broadcast signal, the terrestrial antenna cable should be connected to the ANT IN connector at the back of the receiver

3.3 Connecting to TV & VCR

Fig. 3

Connecting by HDMI cable

To fully enjoy your HD TV channels it is advisable to use HDMI or Component video outputs of your receiver. Connect one end of HDMI cable to the HDMI output of your receiver and another end of cable to HDMI IN connector on your TV.

Connecting to component output

1. Make sure to use proper cable (3 RCA on each side of cable, usually coloured as Green, Blue, Red).
2. Connect chinches at one side of the cable to YPbPr (Green, Blue, Red) outputs on your receiver and another side of the cable to corresponded inputs on your TV. Very important to follow colour mark.

Connecting by SCART cables

1. Connect the TV SCART connector at the back of the receiver to the SCART IN connector on your TV set or connect Video RCA and Audio L/R RCA connectors at the back of the receiver to corresponded inputs on your TV set.
2. Connect the VCR SCART connector of the receiver to the SCART-IN connector on your VCR set.

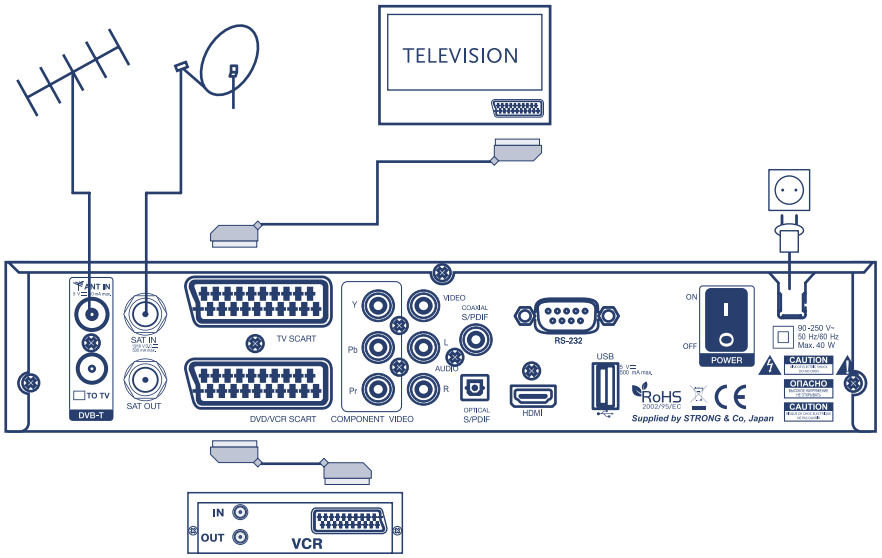


Fig. 4

Note: Please, make sure that your receiver is connected by SCART or 3 RCA cable (Video, Audio L/R) to your TV set when you connect your VCR (or DVD) to receiver. You will not get video signal from your VCR (DVD) through the receiver if your receiver is connected only by HDMI or YPbPr connector to your TV set.

3.4 Download new software

This receiver can download new system software by OTA update from satellite and is also able to load new software via USB from external storage device or PC. Therefore software updates via RS-232 port is only a "stopgap". To upload new software, connect the receiver with an USB cable to an external storage device. Instructions how to download software can be found on our website www.strong.tv (support > download).

3.5 Connecting to external USB Hard disk

Switch on your external HDD (connect the power adapter if applicable) before you connect the USB connector at the back of your receiver. After finishing the First Installation (Cap. 4.0) proceed with following steps:

1. Unless the USB-Hard disk is already formatted in FAT32 and recognised successfully for the first time you will get a message to format your device to FAT32 in "*Application*" > "*USB*" menu.
2. In this menu press the **YELLOW** (Format) button on your remote control to confirm. After ~10 to 20 sec. (depends on HDD size) formatting will be finished and you can leave the menu with the **MENU** or **EXIT** button.
3. Go to "*Application*" >"*PDR*" menu to adjust the preferred recording duration and set Timeshift to OFF or ON as desired.

IMPORTANT: During formatting all data on the hard disk will be deleted and get permanently lost. STRONG cannot be granted for any loss or damage of data, if you format the hard disk.

4.0 STARTING UP FOR THE FIRST TIME

Ensure that your receiver is correctly connected to your television, satellite and terrestrial antennas. Make sure that satellite and terrestrial signals are of good quality. Ask your local Strong dealer to check your installation or satellite signal if you are not sure how to do this.

Confirm that the power plug of receiver is plugged into the wall outlet. Turn on the receiver by power switch on rear panel.

The language section menu will be showing on your TV Screen.

It is recommended that you do first time installation following Installation Wizard step by step.

It will help you easily achieve system configuration and channel installation. If you are advanced user then you can skip wizard by pressing **EXIT** button and set-up channels using Installation menu.

4.1 Language Selection

Press **OK** to choose the language.

4.2 Select Satellite

The Installation Wizard preconfigured for easy installation of Astra 1C, 1E (19E) or HOT BIRD (13E). For these satellites LNB configuration is predefined as Universal LNB connected to the receiver via DiSEqC 1.0 switch input 1. If your dish is aimed to Astra 1C, 1E (19E) or HOT BIRD (13E) then select corresponded satellite from the list (future steps of installation are described in 4.3). If your dish is aimed to another satellite or you have multiple dish installation then select other (future steps of installation are described in 4.4).

4.3 Dish adjustment

After selection of Astra1C,1E(19E) or HOT BIRD (13E) menu *WIZARD-DISH ADJUSTMENT* will appear. Adjust your dish position in small steps until the signal strength and quality bars turn green or yellow. Try to reach the maximum possible strength and quality level. Once you are sure the signal cannot be improved, fix the dish on this position and press **OK** on your remote control to start the channel search. After finished search, the first programmed channel will be displayed on screen.

TIP: Depending from OSD language and satellite selected you may be prompted to select preinstalled channel list. These channel lists include most popular channels ordered according to the preference of most of the customers

4.4 Channel set-up

If you select *Other satellite* then menu *Channel set-up* will be displayed on screen. Using ▲▼ buttons select the Satellite item and press **OK** to display list of satellites. Use ▲▼ buttons to select satellite of your choice and press **OK**. Using ▲▼ buttons select *Dish number* item and using ◀▶ buttons select *dish number* and *transponder*, network search and channels which you want among All channels, FTA and Scrambled in search for menu. Press **OK** in Dish number mode to set up Dish menu.

In *Dish setup menu* configure settings of the LNB, DiSEqC switch and Antenna mode. Please refer to chapter **5.2.2** Dish set-up for detailed information. If you use fixed dish, then press **RED** (*Auto scan*) button on remote control to start channel search. If you use dish mounted on DiSEqC 1.2 or GOTO X positioner then select Dish position item and press **OK**. If you use GOTO X positioner then GOTO X setup menu will be displayed. Please refer to GOTO X setup description in chapter 5.2.4. After setting up dish position, press **RED** (*Auto scan*) button on remote control to start channel search.

4.5 Digital Terrestrial TV installation

After Satellite scan is completed you will be asked to continue installation with Digital Terrestrial TV. If you do not want to install Digital Terrestrial TV at this time – select *No* and press **OK**. You can setup Digital Terrestrial TV later through "*Terrestrial search*" menu. If you wish to install Digital Terrestrial TV – select *Yes* and press **OK**.

Select your *"Country", "Antenna Power mode"* and *"Channel Numbering"*. Use ▲▼ buttons to select an item and ◀▶ buttons to change the value of the item. To continue installation press **BLUE** (*Save&Exit*) button. On the next step of installation wizard you can adjust your terrestrial antenna for best reception condition. Please, use ◀▶ buttons select channel number where digital terrestrial signal is available and adjust your antenna direction and position (If necessary) to get maximum levels on the signal level and quality indicators. You can check with your dealer on which channels digital terrestrial broadcast is available at your location.
Press **BLUE** (*Next*) button to continue to Digital Terrestrial TV scan once you are sure that signal level and quality are the best from possible.

At the end of installation process the receiver will exits from installation menu and tune to the first channel in the list. Enjoy your TV and Radio channels!

TIP: If your home country/broadcaster supports LCN (Logical Channel Numbering), then please adjust channel numbering mode to "*Operator defined*" if you are not sure about this ask your local STRONG dealer. If the LCN is not supported then please select "*Appearing order*".

5.0 MAIN MENU

All the important settings and features of your receiver can be operated in *Main Menu*. The *Main Menu* consists of seven sub-menus: *"Channel Organiser", "Satellite Search", "Terrestrial Search" "Installation", "Timer", "Application"* and *"Common Interface"* Press the **MENU** button when the menu is off, the *MAIN MENU* screen will appear.

5.1 Channel Organizer

In *MAIN MENU* screen, use ▲▼ buttons to select *Channel Organiser*, then press **OK** or ▶ to enter the *Channel Organiser* menu, which consists of the sub-menus *Sort Channels*, *Add to Favourites* and *Edit Channels*.

5.1.1 Sort Channels

In this menu, you can sort channels by order or move channels to specified position.

Note: Channels are sorted in the selected channel list only. Sorting of the channels in one list do not change order of the channels in another list. I.e. sorting of the channels in 1 *Favourite list* do not change order of the channels in list of all channels and vice versa.

Note: Please note, that channel sort function is not available if the setting for "*Channel numbering*" (Menu: *Terrestrial Search - Terrestrial Settings*) is set to "*Operator defined*".

Sort (RED button)

Press **RED** button to select one of available sort options.

- *Original Order* the order of the channels will be restored to last stored order.
- *Alphabet A-Z or Z-A* channels will be sorted in alphabet order.

- *Frequency Low* — High channels will be sorted in frequency order: first channels with low frequency, then with higher frequency.
- *First FTA* — Free-To-Air channels will be placed at the beginning of the list, Scrambled channels at the end.
- *First scrambled* — Scrambled channels will be placed at the beginning of the list, Free-To-Air channels at the end.

If you want to store new order of channels press **YELLOW** (*Save*) or **BLUE** (*Save & Exit*) button. If you do not want to store result of sorting press **EXIT** button. Message "*Do you want to save?*" will appear on screen. Select "*NO*" to cancel or press **OK** to save result of channel sort.

Move (GREEN button)
Press **GREEN** (*Move*) button to manual sort channels. Use ▲▼ buttons to select channel that you want to move. Press **OK** button to confirm channel selection. You can select several channels to move them simultaneously. Now, you can select new position of the channel using ▲▼ buttons. Press **GREEN** (*Move*) button to confirm new position of the channel. Repeat these steps for all channels that you want to move. To save new order of the channels press **YELLOW** (*Save*) or **BLUE** (*Save & Exit*) button.

5.1.2 Add to Favourites
Enter to this menu in order to prepare lists of your favourite channels.
Use ▲▼ buttons to select channels of your choice.
Use ◀▶ buttons to select favourite group where to add selected channel.
Press **OK** button to mark/unmark channel to selected favourite group.
To rename *Favourite group* press **RED** button, select group that you wish to rename and press **OK**.
On screen will appear keyboard. To delete current name of the group select *Backspace* (**GREEN**) and press **OK**. Select *CAPS* (**RED**) to toggle between Capital and small letters. To enter new name use navigation and **OK** buttons.
To save new name press **YELLOW** (*Save*) or **BLUE** (*Save & Exit*) button. To cancel your modifications press **EXIT**.

5.1.3 Edit Channels
In this menu you can edit channel name, lock and delete channels.

Edit
Press **RED** button to edit name of the channel. On screen will appear keyboard. To delete current name select *Backspace* (**GREEN** Button) and press **OK**. To enter new name use navigation and **OK** buttons. To save new name press **YELLOW** (*Save*) or **BLUE** (*Save & Exit*) button. Channel name will be changed in all channel lists. To cancel your modifications press **EXIT**..

Lock
Lock function can be used in order to block access to some channels. Press **GREEN** button to lock/unlock channel of your choice. Locked channel will be marked by Lock symbol. In order to watch locked channel you will need to enter PIN code. Channel will be locked in all channel lists.

Delete

Pressing **YELLOW** button will mark selected channel to delete. To unmark channel select it and press **YELLOW** button again. Channel(s) will be deleted after you press **BLUE** button. Be aware: after pressing **BLUE** button channel(s) will be deleted from all channel lists. To cancel delete operation you can press **EXIT** button. Message "*Do you want to save?*" will appear on screen. Press **EXIT** to cancel or **OK** to confirm.

5.2 Satellite Search

The *Satellite Search menu* contains following sub-menus:

- *Channel set-up* allows you to setup channels from selected satellites.
- *Dish Set-up* allows you to setup configuration of your dishes.
- *Edit satellites* allows you to edit predefined satellites and their transponders as well as add new satellites.
- *GOTO X setup* allows you to setup your location in order to use GOTO X type of positioner.

5.2.1 Channel set-up

From this menu you can setup channels from satellite(s) in several modes, access to *Dish setup menu*, Positioner setup (if used).

- *Satellite:* Move focus of the menu to this item. Press **OK** to display list of available satellites. Select satellite of your choice and press **OK**. If satellite doesn't exist in the list you should add it first using *Edit satellites menu*.
- *Dish number:* move focus of the menu to this item. Use ◀▶ buttons to select dish number to which above selected satellite belongs to. Press **OK** button to enter to *Dish setup menu*. Dish number "----" means that selected satellite do not belongs to any dish.
- Dish position: This item value depends on the mode of the Dish.
  If mode of selected dish is Fixed then this item is not selectable.
  If mode of selected dish is DiSEqC 1.2 then value cannot be stored (in case dish position for selected satellite was not stored) or in range from 1 to 64 if position has been stored. Select item and press **OK** to setup positioner.
  See chapter **5.2.1.1** for more details about Positioner setup.
  If mode of selected dish is GOTO X then value is *GOTO X*. Select item and press **OK** to setup GOTO X function.
- *Transponder:* Move focus of the menu to this item and press **OK**. List of transponders of selected satellite will appear at right side of the screen. You can select transponder in order to check signal strength and quality of reception. Transponder list contains predefined transponders. If you need to modify transponder list please use menu *Edit satellites* as described in chapter **5.2.3**. If you need to scan specific transponder then use Manual scan as described in this chapter below.

- *Network search:* if this item is set to "*No*" then receiver will search for the channels that are available from preset transponder list of selected satellite. If this item is set to "*Yes*" then receiver in addition will search for the channels from transponders information about that can be found from broadcast. Use this option to get new channels that appeared on satellite.
- *Search for:* you can select type of the channels that will be installed to your receiver.
  If selected *All channels* then receiver will install Free-To-Air and Scrambled channels
  If selected *Scrambled* then receiver will install only Scrambled channels
  If selected *FTA* then receiver will install only Free-To-Air channels
  Once you complete all settings you can start channel search process.
  Press **RED** button to install channels from all transponders of the satellite;
  Press **GREEN** button to install channels from transponder selected in Transponder item;
  Press **YELLOW** button to enter to Manual setup channels from specific transponder or to setup single channel with known Video and Audio PID.

Manual setup of channels

In *Manual channel search menu* you can setup all channels from specific transponder or single channel.
To setup all channels from specific transponder:

- *Satellite:* indicate name of the satellite where channels will be searched
- *Frequency:* Use **Numeric** buttons to enter frequency of transponder
- *Polarisation control:* Use ◀▶ buttons to select polarisation of transponder
- *Symbol rate:* Use **Numeric** buttons to enter symbol rate value
- *Network search:* Use ◀▶ buttons to select ON or OFF
- *Search for:* Use ◀▶ buttons to select type of channels to be installed Press **RED** (*Search*)

To setup single channel from specific transponder:

To use this function you need to know special values that identify single channel. For this reason you may need to consult to special magazines or internet.

- It is necessary to setup all parameters of transponder as described in above.
- Press **GREEN** (*PID add*) button.
  - *Satellite*: indicate name of the satellite where channels will be searched
  - *Frequency*: indicate frequency of transponder where you install channel
  - *Service ID*: Use Numeric buttons to enter value in decimal
  - *Video PID*: Use Numeric buttons to enter value in decimal
  - *Audio PID*: Use Numeric buttons to enter value in decimal
  - *CAS*: Use ◀▶ buttons to select *ON* or *OFF*. Set to *ON* if channel is encrypted, otherwise keep *OFF*
  - *HD Video*: Use ◀▶ buttons to select *ON* or *OFF*. Set to *ON* if channel is HD, otherwise keep *OFF*
  - *AC3 Audio*: Use ◀▶ buttons to select *ON* or *OFF*. Set to *ON* if channel has AC3 audio and you are going to use AC3 audio, otherwise keep *OFF*

To add channel press **YELLOW** (*Save*) or **BLUE** (*Save&Exit*) button. The new channel will be added to the list with name "Video CH XXXX", where XXXX is equal to PCR PID (Video) you have entered.

5.2.1.1 Positioner setup

If in Dish setup menu you have configured Dish mode as "DiSEqC 1.2" then you have to setup position of the dish to each satellite that you want to install.
In *Channel setup menu* move menu focus to *Dish position* item and press **OK** button on remote control. Menu *Positioner setup* will appear on screen.

- *Satellite:* Displays the name of satellite position of antenna for which you setup
- *Transponder:* Use ◀▶ buttons to select reference transponder, receivable in your location, to measure signal strength and quality
- *Movement speed:* Use ◀▶ buttons to select between *Slow* and *Fast*. Slow speed allows you to fine adjust position of the dish (each press to direction button will turn dish to short angle). Fast speed can be used to adjust dish position roughly. If Movement speed set to Fast press to direction button will couse continuous movement of the dish to appropriated direction, to stop dish you will have to press **OK** button.
- *Move:* Use ◀▶ buttons to move dish to the East/West direction
- *Centre position:* If you press **OK** button while menu focus is on this item then dish will be turned to centre position, which corresponds to true South direction.
- *Limits:* Use ◀▶ buttons to *Enable* or *Disable* software limits of your positioner.
- *Set limit:* Use ◀▶ buttons to select *East* or *West* limit of dish movement range.

Step by step recommendations of position setup.

- Select reference transponder in order to check signal strength and quality during position setup.
- If you do not know current direction of your dish then move menu focus to *Centre position* item and press **OK**. Dish will be turned to true *South*. Knowing your location longitude you may understand direction where necessary to move dish in order to reach position of selected satellite. For example: your longitude is 5° East and you want to setup dish position for Astra 1C, 1E (19° East). Then, from centre position, you need to move dish to East direction by pressing to ◀ button. If your longitude is 25° East then, in order to setup dish position for Astra 1C, 1E (19° East), you need to move dish in West direction (from centre position) by pressing to ▶ button.
- To setup roughly position of the dish set *Movement speed* to *Fast*. Then move menu focus to *Move* item of the menu and by short presses to ◀ or ▶ buttons move dish to necessary direction. Check signal strength and quality indicators. Once levels start increasing – press **OK** button to stop the dish. Set *Movement speed* to *Slow* and keep adjusting dish position until get best possible values.
- Once you are sure that dish is fine adjusted press **YELLOW** (*Store*) or **BLUE** (*Store & Exit*) button. Dish position for selected satellite will be stored.

NOTE: in order to avoid mechanical damage of your dish please, make sure those mechanical limits in your motor are set correctly and dish would not hit any objects on its movement.

5.2.2 Dish set-up

In this menu you can setup parameters of your dish(es).

- *Dish number:* Use ◀▶ buttons to select number of the dish. This number used in Channel setup menu to create a link between satellite and corresponded dish configuration.
- *LNB type:* Use ◀▶ buttons to select type of LNB. If you set type to *Universal* then you should enter values of Local Oscillator Frequencies in *LO frequencies* menu item
- *LO frequencies:* this menu item selectable only in case LNB type is *Universal*. Press **OK** button and using Numeric buttons enter values in appeared dialog box.
- *Band control:* Use ◀▶ buttons to select value. Set to Auto in order receiver automatically select Band by sending 22 kHz control signal. Set to ON in order receiver generate 22 kHz control signal continuously, or set to OFF in order to disable 22 kHz control signal.
- *Polarisation control:* Use ◀▶ buttons to select value. Set to *Auto* in order receiver automatically control polarisation. Set to *13 V* or *18 V* in order receiver supply LNB with selected power, or set to *OFF* in order to disable LNB power.
- *Switch type:* if you use DiSEqC switch the select appropriated type.
- *Switch input:* select input number to which LNB is connected.
- *Dish mode:* Use ◀▶ buttons to select between *Fixed*, *DiSEqC 1.2* and *GOTO X*.

5.2.3 Edit satellites

In this menu you can edit satellite's name, angle, location and transponder, as well as add new satellite.
Press **RED** button to edit a satellite's properties.
Press **GREEN** to add new satellite.
Edit existing satellite and add new satellite functions are identical.

- *Name:* press **OK** button to edit name of the satellite. On screen will appear keyboard. To delete current name select *Backspace* (**GREEN** Buttons) and press **OK**. To enter new name, use ◀▶ and **OK** buttons. Press **YELLOW** button to save new name or press **BLUE** button to **EXIT**
- *Angle:* Use **Numeric** buttons to enter value of orbital position of the satellite.
- *Location:* Use ◀▶ buttons to select *East* or *West* location of the satellite.
- *Transponder table:* press **OK** button to enter to edit transponder table menu. In this menu use **RED** button to edit parameters of selected transponder, **GREEN** button to add new transponder or **YELLOW** to delete selected transponder. To save changes you have made press **YELLOW** (*Save*) or **BLUE** (*Save&Exit*) button.

5.2.4 GOTO X set-up

In this menu you should set your geographical location, if you use positioner and it supports GOTO X.
Use ▲▼ buttons to navigate in the menu.
Use **Numeric** buttons to enter values.
Use ◀▶ buttons to select an option.
To save changes you have made press **YELLOW** (*Save*) or **BLUE** (*Save&Exit*) button.

5.3 Terrestrial Search

The Terrestrial Search menu contains following sub-menus: *"Channel set-up"* and *"Terrestrial settings"*
In first order make sure that Terrestrial settings are correct and corresponds to the country where you leave.

5.3.1 Channel set-up

There are 2 possible ways of terrestrial channels search: Manual Search (**GREEN** button) and Automatic Search (**RED** button).

Manual Search

Select one or several frequencies by **OK** button then Manual (**GREEN**) to search channels on selected frequencies.

AutoScan

Press Autoscan (**RED**) to scan all frequencies in the list.
On completing the search, the receiver will save automatically the services information.

5.3.2 Terrestrial settings

Use ▲▼◀▶ buttons to select your Country, Antenna Supply and Channel numbering.

Antenna supply: select this option to *ON* in case you use active antenna powered through coaxial cable. The receiver supply DC power +5 V into 50 mA load maximum.

Channel numbering: select this option to "*Operator defined*" in case your operator provide logical channel numbering feature. Otherwise select "*Appearing order*".

5.4 Installation

5.4.1 Preference

In this menu, you can set up your personal preferences.

- *OSD language, Audio language, Subtitle language*
  Use ▲▼◀▶ buttons select the item and **OK** button to display the list.
- *Banner Timeout*
  To set banner duration (how long information banner will be displayed on screen).
  Use ▲▼◀▶ buttons select the item and **OK** button to display the list.
- *Transparency*
  Use ▲▼◀▶ buttons to select the transparency level and **OK** button to display the list.
- *CAM messages*
  To enable or disable displaying of messages from Conditional Access Module. Disabling of CAM messages could be necessary in order to not disturb you while zapping through channels which can't be descrambled by your smart card.
- *Power On Channel*
  Use ▲▼◀▶ buttons to select the item. If your choice is *Fixed channel*: press **OK** button to display a channel list, select a channel and confirm selection with **OK** button. Your receiver will always start with defined channel. If your choice is *Last Viewed* then receiver will awake with the last watched channel.

- *S/PDIF*
  Use ▲▼◀▶ buttons to select the Digital audio mode.
  PCM – the receiver will downmix AC3 audio to PCM stereo.
  Dolby – the receiver will by-pass AC3 audio for future decoding by Digital Audio Amplifier.

5.4.2 TV Setting

In this menu, you can configure the TV setting such as *HD type*, *TV type, Aspect Ratio, Screen Control, RGB/YUV, Brightness, Contrast, Saturation*.

- *HD type*
  Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select a video output resolution and press **OK** button to confirm selection.

Tip: HD type is not selectable if output mode (YUV/RGB) set to *RGB*.

- *TV Type*
  Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select TV Type and press **OK** button to confirm selection.

Tip: If you have changed TV type and Video on screen not appears in 15 seconds – press **EXIT** button 2 times. Such a problem can appear if your TV do not supports video in NTSC format.

- *Aspect Ratio*
  Set accordingly to aspect ratio of your TV.
  Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select Aspect Ratio then press **OK** button to confirm selection.
- *Screen Control*
  Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select Aspect Conversion then press **OK** button to confirm selection.
- *RGB/YUV*
  Selects a mode of video output signal.
  If you have connected your TV to receiver only by SCART cable then it is recommended to set RGB mode. If you have connected your TV to receiver by HDMI or Component cable then this value must be set to YUV.
  Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select YUV or RGB mode then press **OK** button to confirm selection.

WARNING: If you have selected RGB mode then HDMI (digital) and YPbPr (component) outputs on the receiver would be disabled!

- *Brightness / Contrast / Saturation*
  Use ▲▼◀▶ buttons to select the item and press **OK** button to display the list of options, use ▲▼ buttons to select level of Brightness / Contrast / Saturation then press **OK** button to confirm selection.

5.4.3 Time Setting

To synchronise time in your receiver with broadcaster: set *GMT usage* to *ON*, select your time zone and set Summer time accordingly to season.
In some cases it is recommended to set *GMT usage* to *OFF* and setup date/time manually.

5.4.4 Parental Control

In this menu, you can set menu lock status (*Disabled* or *Enabled*) and change the *PIN code*. Parental rate menu allows you to block watching content which is rated for age equal or higher then you have set in this menu. Function of this feature depends from broadcast and STRONG would not take any responsibility if it doesn't work. The default PIN code is **0000**.

5.4.5 Software update

Select this option in order to update your receiver with the latest software version.
Software update services are available from Astra at 19.2E and Hotbird at 13E satellites.
If your antenna is primed to Astra 19.2 E then enter following parameters:
Frequency: 12604; Polarity: H (Horizontal); Symbol rate: 22000
If your antenna is primed to Hotbird 13E then enter following parameters:
Frequency: 12476; Polarity: H (Horizontal); Symbol rate: 27500
Press **RED** (*Search*). The receiver will check availability of software update and propose to update software if new version is available. Follow future instructions displayed on screen. After software update process receiver will switch on a last watched channel automatically.

Note: During software download process Progress of software download will be displayed on screen.

Note: Availability of the software update is subject of local broadcast condition and may not work in all countries. Contact your vendor to find out more about this function.

Warning: Do not switch power off and do not disconnect the receiver from the dish during update process.

5.4.6 System Information

Displays the information about software version installed in the receiver.

5.4.7 Factory Reset

Use *Factory Reset* only when you want to return the receiver to the condition of factory default. This will delete all user settings and installed channels.

5.5 Timer

You can set the timer to make the receiver perform designated actions including timer based wake up or sleep instructions to the receiver.

- *Timer Index*
  Use the ◀▶ buttons to select.
- *Active*
  Use ◀▶ buttons to select among *Power on*, *Power off*, *Duration, Recording* and *OFF* (disable timer)
- *Mode*
  You can set the cycle of the action designated in the timer mode (*Once*, *Daily* or *Weekly*)
- *Channel Type*
  Press **OK** button to display current channel list and using navigation buttons select channel to be shown when the receiver will power on by timer event. You can use TV/R button to select between TV and Radio channels.
- *Starting Time*
  You can set the starting date or days of the week for the timer action. Use Numeric buttons to enter the starting time of the timer action.
- *Duration*
  Use Numeric buttons to enter the duration of channel view when the *Timer mode* is set to *Time Interval*.

5.6 Application

This menu will help you to use *USB, Calendar, Tetris (Game)* and *CAS- only* use for Conax Smart card.

5.6.1 USB

The Receiver is equipped with host controller. Insert your USB memory device to USB connector. Make sure, that power consumption of your USB device is not higher then 500 mA. In case your USB memory device power consumption is higher – make sure to connect an external power supply to your memory device before connecting it to your receiver. Usage of memory device with high power consumption may damage your receiver.

Select *USB menu* in application with ▲▼ and press **OK**

If you would like to backup channels or software to USB memory:

1. Press **GREEN** button and select type of data to store (“*Channel data (UDB)*” will store only channels while “*All SW dates (UAD)*” will store software and channels).
2. Select one item and press **OK** to proceed.
3. Name of created file will be “STB_ALL_MMDDhhmm.UAD” or “STB_DB_MMDDhhmm.UDB”, where: MM – month when file is created; DD – date; hh – hours; mm - minutes

To restore backed up data:

1. Select file (UAD or UDB) and press **OK**.
2. List of possible actions will be displayed. Make your choice and press **OK** to proceed.
3. After updating data from selected file your receiver will reboot automatically in 3 seconds.

To format USB memory device

Please press **YELLOW** Button (*Format*). A warning window will appear to get your confirmation of operation.

To delete file

Press **BLUE** Button (*Delete*). A warning window will appear to get your confirmation of operation.

Tip: When USB memory device is not inserted to the USB port, OSD would not show any files.

5.6.2 Calendar

Use ▲▼ buttons to move to Calendar **OK** button. The calendar will appear on screen. Use ▲▼◀▶ buttons to move between days in a month or ⏫/⏬ buttons to go previous or next Month. Press **EXIT** buttons to return.

5.6.3 Tetris

Use ▲▼ buttons to move to Tetris and press **OK** button. Before starting a game, you will be prompt to select level. Press numeric button to select a level which you want (1~15) and press **OK**.

◀▶: Move block to left or right.

▲▼: Drop block.

OK: Rotate block.

Press **EXIT** buttons to exit from game.

5.6.4 CAS

The receiver is equipped with one slot for Conax smartcard which has access to the scrambled pay per view services.

1. Select *CAS menu* in application with ▲▼ and press **OK**
2. The Screen will show you the version and CAS ID

Tip: When smartcard is not inserted in CAS slot, OSD would not show anything.

5.6.5 PDR

Here you can adjust your preferred Record Size (max. duration of record) and set *Timeshift* to *ON or OFF*.

5.7 Common Interface

The receiver is equipped with two slots of Common Interface which have access to the scrambled the pay per view services with various conditional access modules and a valid smart card.

The programs that can be descrambled are determined by the conditional access module and smart card you use.

1. Select Common Interface with ▲▼ and press **OK**.
2. Common Interface displays on the screen. (The phrase "*Not inserted*" is indicated when the conditional access module is not installed)
3. Insert the conditional access module into Slot 1 or Slot 2.
4. The name of the Slot differs according to each inserted conditional access module.
5. Press **EXIT** to return to the previous menu or press **MENU** to go to current live channel.

6.0 OTHER OPERATIONS

6.1 Program Guide (EPG)

EPG shows the program schedule for the current channel. Availability of EPG depends from broadcast and may not be available for all channels.

In no-menu state, press **EPG** button, the *EPG Menu* will appear. Screen is divided to 3 main parts: at the left channel list, at the right program schedule list and bottom part provide short program description with program start-end time.

In channel list:
Use ▲▼ buttons to choose the channel. Use ◀▶ to switch between channel list and program schedule.

In program schedule list:
Use ▲▼ buttons to choose program. Use **RED**/**GREEN** buttons to select previous/next day of schedule.
Use ◀▶ to switch between channel list and program schedule.
Use **YELLOW** button to display detailed program information.
Use **BLUE** button to programme timer for selected program.

In program details:
Use ▲▼ to scroll information in the window.
Use **EXIT** to return to the list of programs.

6.2 Zapping and information banners

Zapping banner displayed automatically every time when you change channel in normal view mode. It provides information about current channel list type, carrier name, time and date information, channel number and name as well as current program name.
Information banner can be displayed by pressing to **INFO** button.
In addition to zapping banner it provides information about next program, availability of subtitles and teletext on current channel.
Information banner can be toggled to *Extended* and *Signal* modes by pressing **RED** (*Extended*) and **GREEN** (*Signal*) buttons accordingly. In *Extended* mode can be displayed short description of current program (if available). In *Signal* mode displayed technical information such as transponder parameters, audio and video PIDs of current channel, signal strength and quality.

6.3 Channel list and view mode

To call up on screen the current channel list press **OK** button from view mode.
Use ▲▼◀▶ buttons to select channel and press **OK** to switch to full screen view mode.
Use button **SAT** to call up the list of terrestrial channels.

6.3.1 Fast alphabet filtering

Press **RED** (*Filter*) button to filter channels in alphabetical order. The alphabet will be displayed at the right side. Select first letter of the channel name that you need to find in the list and press **OK**.

6.3.2 Selection of the list

From view mode or channel list mode press **SAT** button to display the selection of available channel lists. **FAV** button to display the list of favourite groups. Use ▲▼ buttons to select an item in the list and press **OK** to confirm selection.
To toggle between TV and Radio channels use **TV/RAD** button.

Tip: FAV will only be displayed if you have already added channels to a FAV list.

6.3.3 Favorite list selection

From view mode or channel list mode press **FAV** button and use ▲▼ buttons to select favourite group of your choice. Press **OK** to confirm selection.

Tip: If you want to exit from FAV mode press **TV/RAD** button.

6.3.4 Selection of Audio Language

From view mode press the **AUDIO** button on your remote control. Use ◀▶ buttons to select an audio language from the list of available. Use ◀▶ buttons to select audio channel between *Left*, *Right* and *Stereo*. Press **OK** to confirm your selection. Additionally you can select volume level for this channel.

6.3.5 TELETEXT function

In channel view mode press **TEXT** button. If Teletext is available in several languages, then select language from the list.

6.3.6 Subtitles function

In channel view mode press **SUB** button. List of available subtitles languages will be displayed on the screen. Use ◀▶ buttons to select language and **OK** to confirm. To disable subtitles select *OFF* from the list of the languages.

6.4 PDR functions

The software supports full range of PDR functionality! The usage is based on your own risk! Recording of HD signals requires very high record speed. Therefore the accurate function is depending on the used external USB device. STRONG cannot guarantee for USB devices used. Especially when Timeshift is activated at channels with high data rate, STRONG cannot guarantee an accurate Playback of the Timeshift file. Any risk of the PDR function usage shall not be passed to STRONG!

6.4.1 Record

1. Select the desired TV channel you want to record.
   Press the ● (Record) button on the remote control to start recording.
2. Recording Info banner appears and shows the file name, recording time and duration (which can be adjusted in *Application* > *PDR menu*). It will disappear within OSD-timeout interval. To recall this banner during recording press the **INFO** button.
3. During recording you can call up the Record Channel List by pressing the **OK** button to watch another Free-To-Air channel within the same transponder.

4. To stop recording at any time press ■ (Stop) button.
5. If you want to delete recorded file(s) from the *Recording File List* press the **RED** (delete) or **GREEN** (All delete) button.

6.4.2 Play

1. Press ▶ (Play) button in TV mode and the *Recording File List* will appear on screen.
2. Select with the ▲▼ buttons the file you want to watch and start playback by pressing **OK**.
3. You can activate Fast Forward or Fast Rewind during playback by pressing the ◀◀ or ▶▶ button. Another pressing of these buttons will change the speed (FF: x2, x4, x8; FR: x1, x2, x4, x8). Press ▶ (Play) button to continue playback at desired position.
4. To choose a specific position or scene in the playback press **INFO** and select the desired position with the ◀▶ buttons.
5. To stop the playback press ■ (Stop) button.

6.4.3 Timeshift

1. Make sure that in PDR menu the Timeshift function is set to ON. This can be adjusted in *"Application"* > *"PDR"* menu.
2. Press **II** (Pause) button in TV mode to start Timeshift. The Recording Info banner appears and shows the recorded time.
3. To continue watching the programme press ▶ (Play) button.
4. If you start Timeshift during recording the receiver keeps recording.
5. You can activate Fast Forward or Fast Rewind during Timeshift by pressing the ◀◀ or ▶▶ buttons. Another pressing of these buttons will change the speed (FF: x2, x4, x8; FR: x1, x2, x4, x8).
6. To choose a specific position or scene in Timeshift mode press **INFO** and choose the desired position with the ◀▶ buttons.
7. To leave Timeshift press ■ (Stop) button.

A.1 TROUBLESHOOTING

There may be various reasons for the abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact the dealer. Don't open the receiver cover. This may cause a dangerous situation and will void the warranty.

Symptom	Cause	Remedy
The 4 digits display on front panel does not light up.	The power cord is not plugged in.	Check that the power cord is plugged in to the wall outlet. Make sure power switch on rear panel is in ON position.
No picture or sound	Wrong connection of the Audio/ Video output of the receiver to TV. Audio muting. TV power off.	Connect the Audio/Video output of the receiver to TV correctly. Press the **MUTE** button Turn TV on.
No picture	The receiver can't receive the signal Incorrect values of channel parameters. Wrong direction of the dish or possible damage after storm.	Check the Terr./Sat-antenna cable, replace the cable, or connect the cable to the receiver tightly. Set the values of TP or terr. channel parameters correctly in installation menu. Press TV/Radio to get back to TV channels.
Message "*Antenna Power Overload*"	Receiver detects shortcut in cable system.	Disconnect receiver from the main, check LNB/antenna and appropriate cable, then connect receiver again.
The remote control does not work	The batteries of the remote control are not inserted or exhausted	Check whether the batteries are inserted correctly in your remote control. Check the batteries, and if exhausted replace the batteries in the remote control.

A.2 SPECIFICATIONS

Demodulator DVB-S

Demodulation:	QPSK, 8PSK	
Input Symbol Rate:	DVB-S QPSK:	2 ~ 45 Ms/s
	DVB-S2 8PSK/QPSK:	10 ~ 30 Ms/s
FEC Decoder:	1/2, 2/3, 3/4, 5/6, 7/8 in DVB-S2 mode	
	1/2, 2/3, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10 in DVB-S2 mode	

Demodulator DVB-T

Modulation:	COFDM
Demodulation:	QSPK, 16/64QAM
IF bandwidth:	6, 7 or 8 Mhz
Guard Interval:	1/4, 1/8 1/16, 1/32
Code rate:	1/2, 2/3, 3/4, 5/6, 7/8

Video Decoder

Profile Level:	MPEG-2 MP@ML, MP@HL, MPEG-4 H.264/AVC
Input Rate:	Max. 90 Mbit/s
Aspect Ratio:	4:3, 16:9, Pan & Scan, Letterbox
Frame Rate:	25 Hz for PAL, 30 Hz for NTSC
Video Resolution:	576p, 720p, 1080i

Audio Decoder

Audio Decoding:	MPEG-1 Layer 1 & 2, Dolby Downmix
Audio Mode:	Mono L/R, Stereo, Dolby Digital (dd)
Frequency Response:	20 ~ 20 kHz, <±2 dB
	60 Hz ~ 18 kHz <± 0.5dB
Sampling Rate:	32, 44.1, 48 kHz

Tuner DVB-S

Connector type:	F Type, IEC169-24, Female
Input Frequency Rage:	950 – 2150 MHz
RF Impedance:	75 Ohm unbalanced
Signal Level:	-65 to -25 dBm
LNB Power:	13.5/18.5 V DC (± 5%), Max. 0.5 A max, overload protected
DiSEqC Versions:	1.0, 1.2, GOTO X

Tuner DVB-T

Connector type:	Female, IEC60169-2, 75 nominal
Frequency Rage:	VHF: 174 to 230 MHz
	UHF: 470 to 862 MHz
Signal Level:	-78.5 ~ -25 dBm
	(64-QAM, Code Rate 2/3, Guard Interval 1/8, Gaussian Channel)
COFDM Spectrum:	COFDM 2K/8K-Carrier
Antenna supply:	5 Volt DC, Max. 50mA overload protected

System & Memory

CPU:	STi7100
Flash Memory:	8 MBytes
System Memory:	64 MBytes
A/V Memory:	64 MBytes

Connectors

ANT IN; TO TV
SAT IN; SAT OUT
TV SCART (RGB, CVBS, Audio L/R Output with Volume control)
VCR Scart (Input - RGB, CVBS, Audio L/R; Output - CVBS, Audio L/R)
HDMI (V/A -Output) Type A -Version:1.0
RCA Output - Audio L/R & Video Output
Component Video Out (Y, Pb, Pr)
S/PDIF Dolby Digital Out (Coaxial, Optical)
Data Interface – serial port: RS-232, 9-Pin D-Sub Male type
USB 2.0, Type A Connector

General Data

Input Voltage Range:	90 – 250 V AC, 50/60 Hz
Power Consumption:	max 40 W
Operating Temperature:	0 ~ +40 °C
Storage Temperature:	-10 ~ 50 °C
Operating Humidity Range:	10 ~ 85 % RH, Non-condensing
Size (W x D x H) in mm:	300 x 215 x 65
Weight:	1.6 kg

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